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OPTICAL DISK SUBSTRATE AND ITS PRODUCTION

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Abstract:

PROBLEM TO BE SOLVED: To obtain an optical disk substrate attaining accurate transfer of pits, ensuring a low error rate and less liable to warp by moisture absorption with polycarbonate resin from 2,2- bis(3-methyl-4-hydroxyphenyl)propane.

SOLUTION: This optical disk substrate is formed with polycarbonate resin obtd. by allowing a carbonate precursor to react with dihydric phenol, mainly 2,2-bis(3- methyl-4-hydroxyphenyl)propane. The specific viscosity of the polycarbonate resin is 0.2-0.4. When the resin is dissolved in methylene chloride, the number of undissolved particles each having $\geq 0.5\mu\text{m}$ diameter measured in the resultant soln. is $\leq 25,000$ per 1g of the resin and the number of undissolved particles each having $\geq 1\mu\text{m}$ diameter is ≤ 500 . The resin has $\leq 0.2\text{wt.}\%$ water absorption.

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